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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/735,728	12/16/2003		Wan-Ha Kim	46016 3680			
1609	7590	08/10/2005	. EXAMINER				
ROYLANCI 1300 19TH S	•	AMS, BERDO &	LEE, SUSAN SHUK YIN				
SUITE 600	I KCLLI, I		ART UNIT	PAPER NUMBER			
WASHINGTO	ON,, DC	20036	2852				

DATE MAILED: 08/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

				W				
	Ap	plication No.	Applicant(s)					
		0/735,728	KIM					
Office Action Summar	γ Ex	aminer	Art Unit					
		san S. Lee	2852					
The MAILING DATE of this con Period for Reply	nmunication appears	s on the cover shee	t with the correspondence a	ddress				
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMION - Extensions of time may be available under the properties of the six (6) MONTHS from the mailing date of thich is six of the period for reply specified above, the maximum of the properties of the six of	MUNICATION. visions of 37 CFR 1.136(a). s communication. hirty (30) days, a reply withi num statutory period will appor reply will, by statute, caus onths after the mailing date	In no event, however, ma n the statutory minimum of ply and will expire SIX (6) N e the application to becom	y a reply be timely filed thirty (30) days will be considered time MONTHS from the mailing date of this e ABANDONED (35 U.S.C. § 133).					
Status								
1) Responsive to communication(s) filed on .							
2a) This action is FINAL .	2b)⊠ This acti	on is non-final.						
· _	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4) ⊠ Claim(s) <u>1-10</u> is/are pending in 4a) Of the above claim(s) 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1 and 6-9</u> is/are reject 7) ⊠ Claim(s) <u>2-5 and 10</u> is/are obje 8) □ Claim(s) are subject to r	_ is/are withdrawn fred. cted to.			•				
Application Papers								
9) The specification is objected to	by the Examiner.			•				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119		·						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment(s)				•				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Rev Information Disclosure Statement(s) (PTO-14 Paper No(s)/Mail Date 5/4/04. 		Paper	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PT	ГО-152)				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

DETAILED ACTION

Claim Objections

Claim 4 is objected to because of the following informalities:

As to claim 4, line 2, "a second screw portion" is unclear. There is no previous recitation of a first screw portion in claims 3 and 1 to which claim 4 depends upon.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 6, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith et al. (5,398,849) in view of Ban et al. (6,128,453).

Smith et al. discloses a toner cartridge using to dispense toner into a reservoir area of a printer apparatus. The toner cartridge have a housing 10 with end cap 38 that reads on the instant invention's "cartridge sleeve" and sidewall openings 18. When the end cap 38 is rotated, a slide 30 with openings 32 will move to align with openings 18. This movement is from a covered (closed) position to an exposed (open) position so that toner can pass freely from the interior of the cavity 20 into the reservoir area of the printing apparatus. Note column 2, line 56 – column 3, line 65. A cap 54 reads on the

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instant invention's "knob unit" (claim 6). The end cap 38 may include a shoulder 48 that incorporates a foam seal to retain the toner within the housing cavity.

Smith et al. differs from the instant invention by not disclosing a developing roller.

Ban et al. discloses in a main assembly 100 of an image forming apparatus there is a developing device 201b with a developing roller 201f and a toner hopper 201a.

Note column 5, lines 33-52.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Smith et al. with that of Ban et al. so that an image can be developed onto an image bearing apparatus.

Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith et al. in view of Ban et al. as applied to claims 1, 6, and 7 above, and further in view of Zhao et al. (2002/0150829).

Smith et al., as modified by Ban et al., differs from the instant invention by not disclosing a concentration of ink is more than 3% solid or between 10 to 20% solid.

Zhao et al. disclose developing with a liquid developer to create a marking material layer having a solids percentage by weight in a range between 15 percent and 35 percent. Note paragraph [0114].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Smith et al. in view of Ban et al. with that of Zhao et al. for optimal developing.

Allowable Subject Matter

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Claims 2-5 and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan S. Lee whose telephone number is 571-272-2137. The examiner can normally be reached on Mon. - Fri., 10:30-8:00, Second Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Art Grimley can be reached on 571-272-2136 or 571-272-2800 (Ext. 52). The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Susan S. Lee Primary Examiner